

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/US 03/27785

10/526918

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C22B34/12 C22B9/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C22B B01D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2 915 382 A (RAYMOND PAUL L ET AL) 1 December 1959 (1959-12-01) column 2, line 57 - column 3, line 16 ----	1-25
A	US 2 823 991 A (JONAS KAMLET) 18 February 1958 (1958-02-18) claim 1; column 3, lines 33-57 ----	1-25
A	US 6 409 797 B2 (ANDERSON RICHARD PAUL ET AL) 25 June 2002 (2002-06-25) cited in the application column 4, lines 24-55 ----	1-25
A	US 4 379 718 A (GRANTHAM LEROY F ET AL) 12 April 1983 (1983-04-12) -----	

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *A* document member of the same patent family

Date of the actual completion of the international search

20 January 2004

Date of mailing of the international search report

02/02/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Bjoerk, P

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

US 03/27785

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2915382	A	01-12-1959	NONE	
US 2823991	A	18-02-1958	GB 770850 A	27-03-1957
US 6409797	B2	17-01-2002	US 5958106 A	28-09-1999
			US 5779761 A	14-07-1998
			US 2002005090 A1	17-01-2002
			US 2002148327 A1	17-10-2002
			US 2002152844 A1	24-10-2002
			US 2003145682 A1	07-08-2003
			US 2003061907 A1	03-04-2003
			AU 686444 B2	05-02-1998
			AU 3320195 A	04-03-1996
			BR 9508497 A	23-12-1997
			CA 2196534 A1	15-02-1996
			CN 1161064 A , B	01-10-1997
			DE 69521432 D1	26-07-2001
			DE 69521432 T2	29-05-2002
			EP 0777753 A1	11-06-1997
			ES 2161297 T3	01-12-2001
			JP 10502418 T	03-03-1998
			JP 3391461 B2	31-03-2003
			KR 241134 B1	02-03-2000
			NO 970444 A	26-03-1997
			RU 2152449 C1	10-07-2000
			WO 9604407 A1	15-02-1996
US 4379718	A	12-04-1983	AU 543753 B2	02-05-1985
			AU 8346582 A	25-11-1982
			CA 1193447 A1	17-09-1985
			JP 1716294 C	27-11-1992
			JP 3080854 B	26-12-1991
			JP 57194220 A	29-11-1982